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Effective 01/01/2003. Patent fees are subject to annual revision

Applicant claims small entity status. See 37 CFR 1.27

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Not Yet Assigned 0 Concurrently Herewith Filing Date À, Mark A. Behlke First Named Inventor Examiner Name Not Yet Assigned Not Yet Assigned Art Unit 03988/100K297US1 Attorney Docket No. QI-

TOTAL AMOUNT OF PAYMENT METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) O Credit Money 3. ADDITIONAL FEES Check Other Х None Card Order Deposit Account Small Entity Large Entity Deposit 04-0100 Fee Fee Fee Account Fee Description Number Code (\$) Code (\$) Fee Paid Deposit 1051 130 2051 65 Surcharge - late filing fee or oath Darby & Darby P.C. Account Name Surcharge - late provisional filing fee or cover 2052 1052 50 25 The Director is authorized to: (check all that apply) sheet. Charge fee(s) indicated below X | Credit any overpayments 130 1053 1053 130 Non-English specification Charge any additional fee(s) during the pendency of this 1812 2,520 1812 2,520 For filing a request for ex parte reexamination Requesting publication of SIR prior to 1804 9201 1804 9201 Charge fee(s) indicated below, except for the filing and Examiner action 1,840* Requesting publication of SIR after extra claim fees to the above-identified deposit account. 1805 1.840 1805 Examiner action **FEE CALCULATION** 1251 110 2251 55 Extension for reply within first month 1. BASIC FILING FEE 1252 2252 410 205 Extension for reply within second month Large Entity Small Entity 1253 930 2253 465 Extension for reply within third month Fee Fee Fee Description Fee Paid 1254 1,450 2254 725 Extension for reply within fourth month Code (\$) Code (\$) 2001 375 Utility filing fee 375.00 1001 750 1.970 1255 2255 985 Extension for reply within fifth month 1002 330 2002 165 Design filing fee 1401 320 2401 160 Notice of Appeal 1003 520 2003 260 Plant filing fee 1402 320 2402 Filing a brief in support of an appeal 1004 2004 375 Reissue filing fee 750 1403 280 2403 140 Request for oral hearing 1005 160 2005 80 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 2452 110 55 Petition to revive - unavoidable SUBTOTAL (1) (\$) 375.00 1453 2453 1,300 650 Petition to revive - unintentional 1501 1,300 2501 650 Utility issue fee (or reissue) 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Extra Fee from 1502 470 2502 235 Design issue fee Fee Paid laims below Total Claims 31 -20** 99.00 2503 11 9.00 1503 630 315 Plant issue fee Independent 1460 130 1460 Petitions to the Commissioner 130 2 -3** 0 42.00 0.00 Claims Multiple Dependent 0.00 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 1806 Submission of Information Disclosure Stmt Large Entity Small Entity Fee (\$) Recording each patent assignment per Fee Description 8021 40 8021 40 (\$) Code Code property (times number of properties) Filing a submission after final rejection 1202 18 2202 9 Claims in excess of 20 1809 750 2809 (37 ČFR 1.129(a)) 1201 84 2201 42 Independent claims in excess of 3 For each additional invention to be 750 2810 375 1810 1203 280 2203 140 Multiple dependent claim, if not paid examined (37CFR 1.129(b)) 1204 2204 Reissue independent claims 84 42 750 Request for Continued Examination (RCE) 1801 2801 375 over original patent Request for expedited examination 1802 900 1802 900 1205 18 2205 ** Reissue claims in excess of 20 of a design application and over original patent Other fee (specify) 99.00 0.00 SUBTOTAL (2) (\$) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) **or number previously paid, if greater; For Reissues, see above

SUBMITTED BY				(Complete	(if applicable))
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Signature	Samue J. Wood	Re		Date	September 11, 2003

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September 11, 2003

Date

Approved for use through 07/31/2006. OMB 0651-0032
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		ey Docket No. 03988/100K297US1					
l טדונודץ t		nventor Mark A. Behlke					
PATENT APPLICATION		METHODS AND SYSTEMS FOR ESTIMATING					
TRANSMITTAL	Title	THE MELTING TEMPERATURE (TM) FOR					
	ride	POLYNUCLEOTIDE MOLECULES					
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Evamo	ss Mail Label No. EV 306629251 =US					
	Expres						
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application con	MS Patent Application ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
1. X Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or						
(Submit an original, and a duplicate for fee processing) Applicant claims small entity status.	Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission						
2. X See 37 CFR 1.27.	8. (if applicable, all necessary)						
3. X Specification [Total Pages] 60	1	a. Computer Readable Form (CRF)					
(preferred arrangement set forth below) - Descriptive title of the invention	b. Specification Sequence Listing on:						
 Cross Reference to Related Applications 		i. CD-ROM or CD-R (2 copies); or ii. Paper					
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 		c. Statements verifying identity of above copies					
or a computer program listing appendix - Background of the Invention		ACCOMPANYING APPLICATION PARTS					
Brief Summary of the Invention Brief Description of the Drawings (if filed)		Assignment Papers (cover sheet & document(s))					
- Detailed Description							
- Claim(s) - Abstract of the Disclosure		10. 37 CFR 3.73(b) Statement Power of Attorney					
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 5]]	11. English Translation Document (if applicable)					
5. Oath or Declaration [Total Sheets 4	.]]	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations					
a. X unexecuted (original or copy)		13. Preliminary Amendment					
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)						
i DELETION OF INVENTOR(S)		15 Certified Copy of Priority Document(s)					
Signed statement attached deleting inventor(s) named in the prior application,		(if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).					
see 37 CFR 1.63(d)(2) and 1.33(b).		Applicant must attach form PTO/SB/35 or its equivalent.					
		17. X Other: Certificate of Express Mailing Under 37					
6. x Application Data Sheet. See 37 CFR 1.76	C.F.R. 1.10						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the							
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:							
Continuation Divisional Continuation-in-part (CIP) of prior application No.:							
Prior application information: Examiner Art Unit:							
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by							

Signature

Janua S. Ware

Application	No.	(if known)	•

Attorney Docket No.: 03988/100K297US1

Certificate of Express Mailing Under 37 CFR 1.10

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Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

- Utility Patent Application Specification (60 pages) inlcuding claims 1-31 and abstract;
- 2. Drawings (Figures 1A-4 on 5 sheets);
- 3. Utility Patent Application Transmittal (1 page);
- Declaration and Power of Attorney (unexecuted) (4 pages);
- 5. Fee Transmittal (1 page);
- 6. Application Data Sheet (3 page);
- 8. Return Receipt Postcard; and